

Title (en)
Measurement device

Title (de)
Messeinrichtung

Title (fr)
Dispositif de mesure

Publication
EP 2813802 B1 20191023 (DE)

Application
EP 14169847 A 20140526

Priority
DE 102013210999 A 20130613

Abstract (en)
[origin: CN104236450A] A measuring device for the high-precision optical determination of distance or position includes a light source, at least one optical functional element in the form of a plane mirror or a measuring standard, and a detector system. At least two sub-beams are generated, of which at least one impinges on the functional element at least three times before the sub-beams propagate, interferingly superposed, in the direction of the detector system, via which at least one phase-encoded measuring signal is able to be generated from the superposed sub-beams. Between the impingements on the optical functional element, the sub-beam passes through at least two imaging elements, the imaging elements having imaging factors such that no location and directional shear of the interfering sub-beams results in the event the optical functional element tilts out of its setpoint position.

IPC 8 full level
G01B 9/02 (2006.01)

CPC (source: EP US)
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Designated contracting state (EPC)
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